



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
SUPERFUND SITE STRATEGY RECOMMENDATION - REGION 06



Site Name: Circle Court Ground Water

CERCLIS ID#: TXN000606965

Alias Site Name: NA

Address: 117 Circle Court

City/County or Parish/State/Zip: Weatherford/Parker County/Texas/76087

Report Type: Expanded Site Inspection

Date: August 25, 2011

Author: TCEQ - Gary Hazelwood

**RECOMMENDATION:**

<input type="checkbox"/> 1. No Further Remedial Action Planned Under Superfund (NFRAP)	<input checked="" type="checkbox"/> 2. Further Investigation Needed Under Superfund															
	<table><tr><td><input type="checkbox"/> PA</td><td><input checked="" type="checkbox"/> HRS</td><td>Priority: <input type="checkbox"/> High</td></tr><tr><td><input type="checkbox"/> SI</td><td><input type="checkbox"/> RI/FS</td><td><input type="checkbox"/> Low</td></tr><tr><td><input type="checkbox"/> ESI</td><td><input type="checkbox"/> RA</td><td></td></tr><tr><td colspan="3"><input type="checkbox"/> Other: _____</td></tr><tr><td colspan="3">To be performed by: <u>TCEQ</u></td></tr></table>	<input type="checkbox"/> PA	<input checked="" type="checkbox"/> HRS	Priority: <input type="checkbox"/> High	<input type="checkbox"/> SI	<input type="checkbox"/> RI/FS	<input type="checkbox"/> Low	<input type="checkbox"/> ESI	<input type="checkbox"/> RA		<input type="checkbox"/> Other: _____			To be performed by: <u>TCEQ</u>		
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<input type="checkbox"/> Other: _____																
To be performed by: <u>TCEQ</u>																
<input type="checkbox"/> 3. Action Deferred to: <input type="checkbox"/> RCRA <input type="checkbox"/> NRC																
<input checked="" type="checkbox"/> 4. Site Being Addressed Under the State Voluntary Cleanup Program (VCP): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																

**NOTIFY AUTHORITY:**

<input type="checkbox"/> Removal	<input type="checkbox"/> RCRA	<input type="checkbox"/> TSCA	<input type="checkbox"/> CAA	<input type="checkbox"/> SMCRA
<input type="checkbox"/> Remedial	<input type="checkbox"/> State/Tribe	<input type="checkbox"/> NPDES	<input type="checkbox"/> NRC	<input type="checkbox"/> Resource Trustee: _____
<input type="checkbox"/> CERCLA	<input type="checkbox"/> Federal	<input type="checkbox"/> UIC	<input type="checkbox"/> SPCC	<input type="checkbox"/> Other: _____
Enforcement	Facility			

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**DISCUSSION:**

The Circle Court Ground Water site is located at 117 Circle Court in Willow Park, Texas. It is located in a rural residential area with single-family residences to the east, west, and south. A 15-acre vacant wooded lot is located north of the site. North of this vacant wooded lot is a truck stop/diner. Located at the site is a municipal drinking water well (Well 20) which is part of the Willow Park Municipal System. Well 20 was drilled on July 15, 1965 to a depth of 180 feet below ground surface.

The Willow Park Municipal System currently provides drinking water to 5,897 individuals through 1,685 connections. Ground water is pumped from 17 municipal wells through five pump stations to 11 points of entry in the system. Well 20 is the only municipal well providing water to the Willow Springs Oaks Pump Station (Point of Entry No. 11). Routine sampling conducted on March 23, 2006 Point of Entry No. 11 detected trichloroethene (TCE) at 6.03 ug/L. As a result, Willow Park Municipal System voluntarily took Well 20 out of service. Follow-up sampling collected directly from Well 20 on May 4, 2006 detected TCE at 33.9 ug/L. On June 19, 2006, granular activated carbon (GAC) filters were installed on Well 20. Periodic sampling of water before and after the GAC filters revealed the filters have effectively reduced the TCE concentrations to levels below the EPA Maximum Contaminant Level (MCL). Nine private wells located in the vicinity of Point of Entry No 11 were sampled on June 1-2, 2006. Of the nine wells sampled, TCE was detected in five of the wells. One of these wells had a concentration of TCE greater than the EPA MCL. Point of Entry No. 11 and Well 20 are located in a rural residential area. No potential source of the TCE contamination was identified during the Preliminary Assessment; however, the distribution of TCE in groundwater suggested a source area to the north-northwest of Well 20.




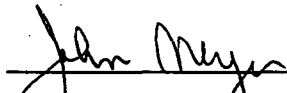
Because of the release of contaminants to the local drinking water aquifer, a Site Inspection (SI) was conducted at the site in order to gather additional information about the site. During the SI which was conducted in March 2010, a total of 22 groundwater samples, including three background samples, three field duplicate samples and three aqueous field blanks, were collected from public water supply wells, residential wells and a private commercial well within the four-mile target distance limit of the site. A significant concentration of TCE was documented by chemical analysis in three of the wells sampled. The distribution of TCE suggested that additional sampling should be conducted to further identify the extent of the groundwater contamination. No sources of TCE, other VOCs, or metals have been identified through chemical analysis at the site or in the vicinity of the groundwater or soil sampling areas.

This Expanded Site Inspection (ESI) was conducted to identify potential sources of the groundwater contamination and to further delineate the TCE plume and to protect private drinking water wells located in proximity to the three wells with TCE concentrations exceeding the MCL. The ESI field work was conducted during the week of June 21, 2010. During this ESI, a total of 20 groundwater samples, including two background samples and three field duplicate samples, plus three aqueous field blanks were collected at the site and from the surrounding area. Samples from three wells detected significant TCE concentrations. Based on the combined results of the SI and ESI sampling events, the distribution of TCE appears to be a narrow plume that roughly follows a half mile stretch of Russell Road. One exception is a well located on Annetta Road, GW-48, which is located further east of the other wells. No obvious source of the TCE contamination was identified.

Numerous drinking water receptors are located within the four-mile target distance limit from the Circle Court Groundwater site. Based on the 2000 U.S. Census, the North Central Texas Council of Governments (NCTCOG) estimates that approximately 11,320 persons live within a four-mile radius of the site. However, the NCTCOG has also estimated that the population of Parker County grew from 88,495 in 2000 to 126,000 in 2010, an increase of over 42 percent. Well water uses within four miles of the site include public water supply, domestic, irrigation, commercial, stock or livestock and miscellaneous uses. A search of the Texas Water Development Board (TWDB) water well database revealed 55 public water supply wells and 554 private domestic-use wells located within four miles of the site; however, complete data is not available to determine which of those wells produce drinking water from the Paluxy Formation of the Trinity Aquifer.

A release to the groundwater pathway has been confirmed. Information gathered during the Site Inspection and this Expanded Site Inspection indicates the Circle Court Ground Water site may meet the criteria necessary for listing on the National Priorities List (NPL) of federal Superfund sites. As such, it is recommended that Hazard Ranking System score and package be prepared for the site. The State will be provided a copy of this decision document.

#### APPROVALS:

Report Reviewed by:	Bret Kendrick (Site Assessment Manager)	Signature:		Date:	10/06/11
Disposition Approved by:	John Meyer (Section Chief 6SF-TR)	Signature:		Date:	10/31/11